Title (en)
SYSTEMS AND METHODS FOR DETECTION AND CANCELLATION OF NARROW-BAND NOISE

Title (de)
SYSTEME UND VERFAHREN ZUR ERKENNUNG UND UNTERDRÜCKUNG VON SCHMALBANDRAUSCHEN

Title (fr)
SYSTÈMES ET PROCÉDÉS PERMETTANT DE DÉTECTER ET DE SUPPRIMER UN BRUIT EN BANDE ÉTROITE

Publication
EP 3008916 A1 20160420 (EN)

Application
EP 14734356 A 20140605

Priority
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Abstract (en)
[origin: US2014369517A1] In accordance with methods and systems of the present disclosure, an integrated circuit for implementing at least a portion of a personal audio device may include an output including an anti-noise signal, a reference microphone input, an error microphone input, and a processing circuit. The processing circuit may implement an adaptive filter having a response that generates the anti-noise signal from the reference microphone signal to reduce the presence of the ambient audio sounds heard by the listener, wherein the processing circuit may implement a coefficient control block that shapes the response of the adaptive filter in conformity with the error microphone signal and the reference microphone signal by adapting the response of the adaptive filter in accordance with a calculated narrow-band-to-full-band ratio, wherein the narrow-band-to-full-band ratio is a function of a narrow-band power of the reference microphone signal divided by a full-band power of the reference microphone signal.

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